

Activity A:
Observing
induction

Get the Gizmo ready:

- Set the **Current** to 0 amps.



Goal: Use compasses to determine the direction of magnetic field induced by a current in a wire.

1. Predict: Place the compasses in a circle around the wire as shown at right. What do you think will happen as you slowly drag the **Current** slider all the way to the right?

There will be a change in the needles' directions.



2. Test: Use the Gizmo to test your prediction. Describe the results:

They turned anticlockwise.

3. Observe: Look at the **Front** view.

In which direction is the current moving through the wire?

Up

(Note: By convention, the current direction shown is the direction of positive charge. In reality, electrons move in the opposite direction through the wire.)

4. Predict: Scientists use the **right-hand rule** to predict the direction of an **induced magnetic field**—or a magnetic field created by a current. To use the right-hand rule, position your right hand so that the thumb points in the direction of the current. The magnetic field lines wrap around the wire in the same direction as the fingers of your right hand.

If the current was pointed down, will the induced magnetic field be clockwise or counterclockwise?

Clockwise



5. Test: Set the **Current** to -60 amps.

- A. In which direction is the current now moving through the wire?
- B. What is the direction of the induced magnetic field?

Clockwise

Down

6. On your own: Use a battery, wire, and small compass to demonstrate magnetic induction. Describe your results in your science journal or notebook.

Answer To Stephen Murray Magnetic Induction

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Answer To Stephen Murray Magnetic Induction:

Unveiling the Magic of Words: A Review of "**Answer To Stephen Murray Magnetic Induction**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Answer To Stephen Murray Magnetic Induction**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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